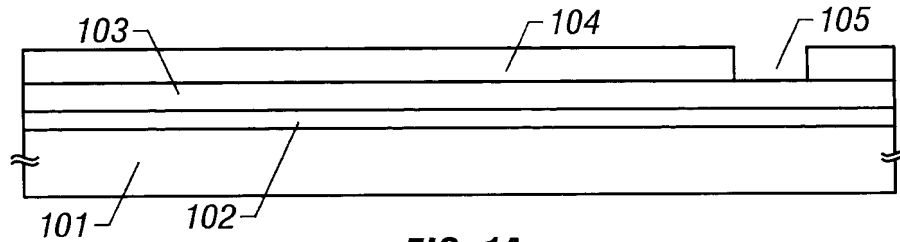
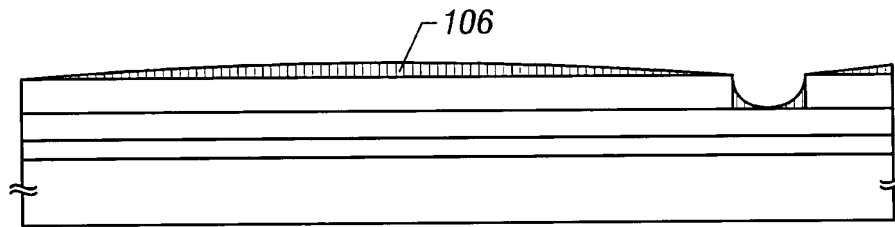


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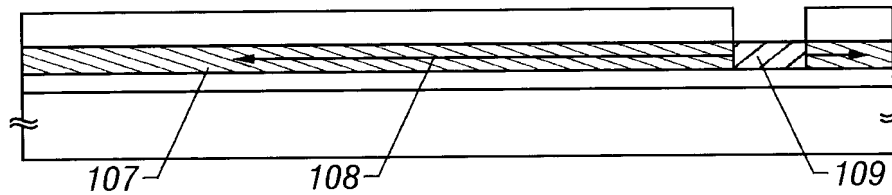


**FIG. 1A**



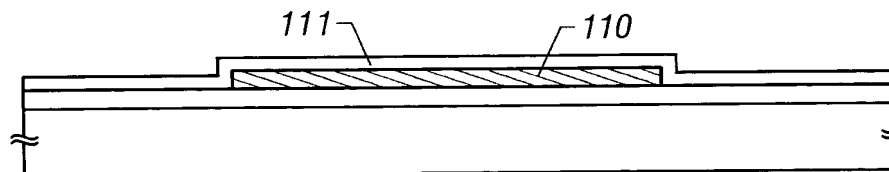
**FIG. 1B**

HEAT TREATMENT FOR CRYSTALLIZATION



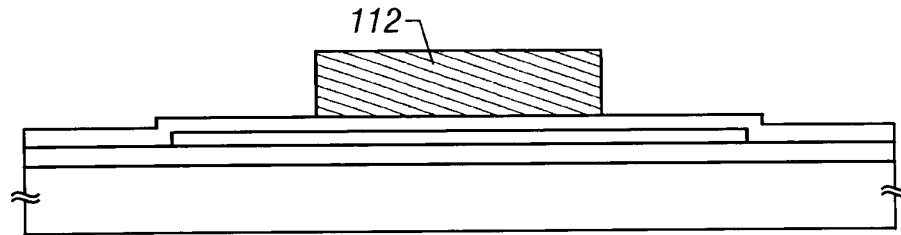
**FIG. 1C**

HEAT TREATMENT IN ATMOSPHERE CONTAINING HALOGEN ELEMENT



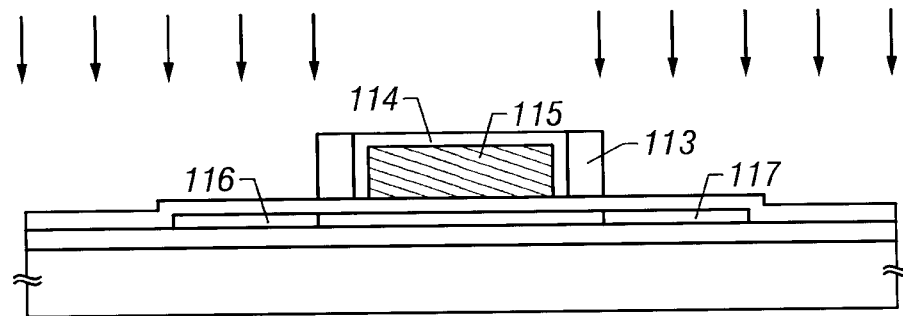
**FIG. 1D**

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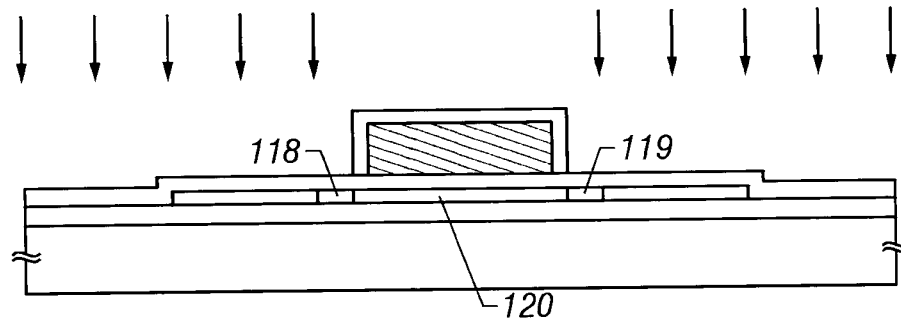
**FIG. 2A**

## IMPURITY ION IMPLANTATION

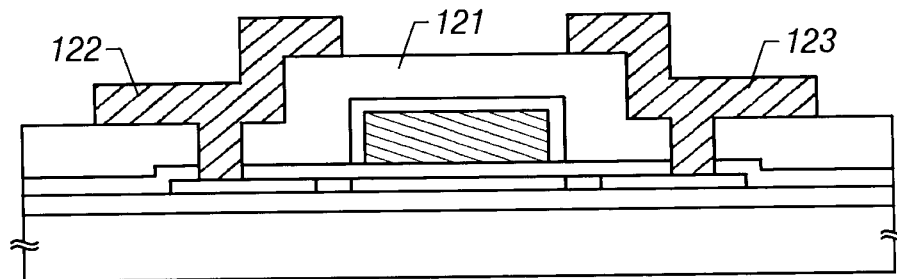


**FIG. 2B**

## IMPURITY ION IMPLANTATION



**FIG. 2C**



**FIG. 2D**

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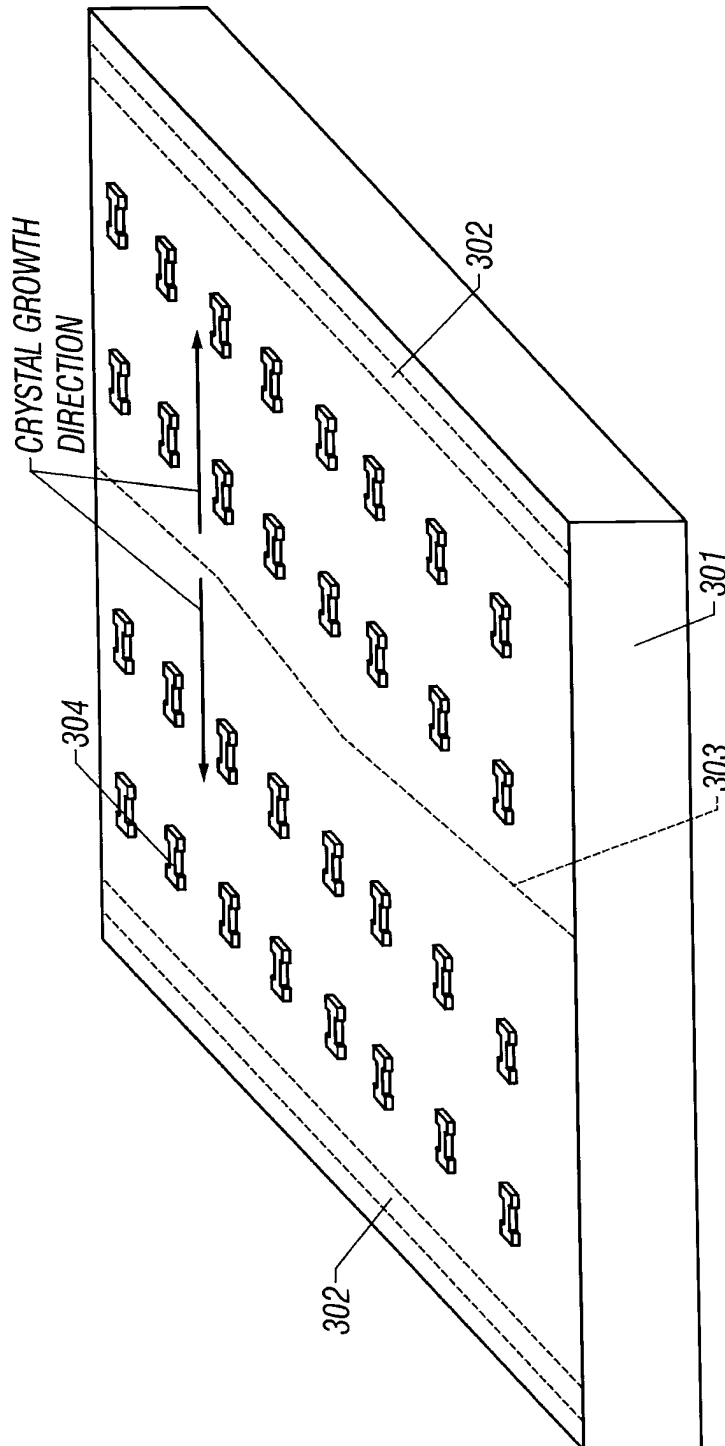


FIG. 3

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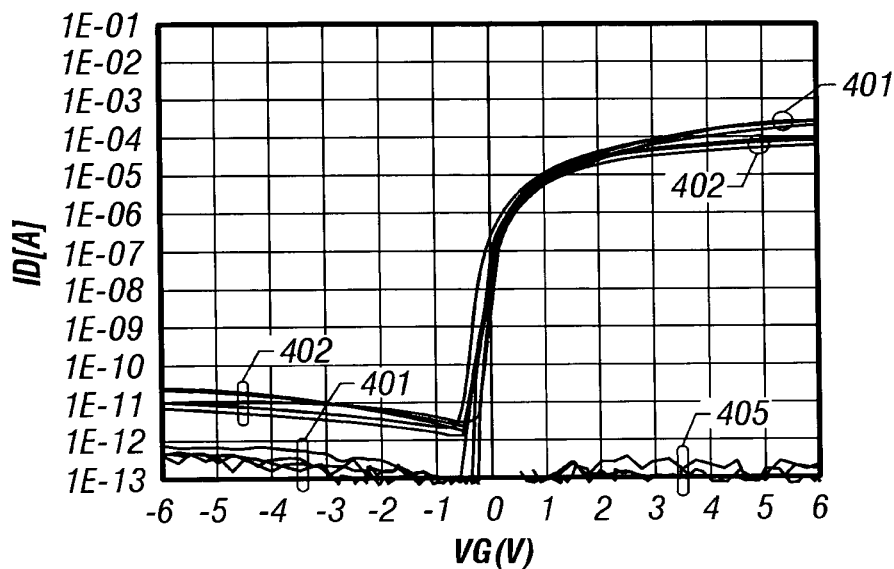


FIG. 4A

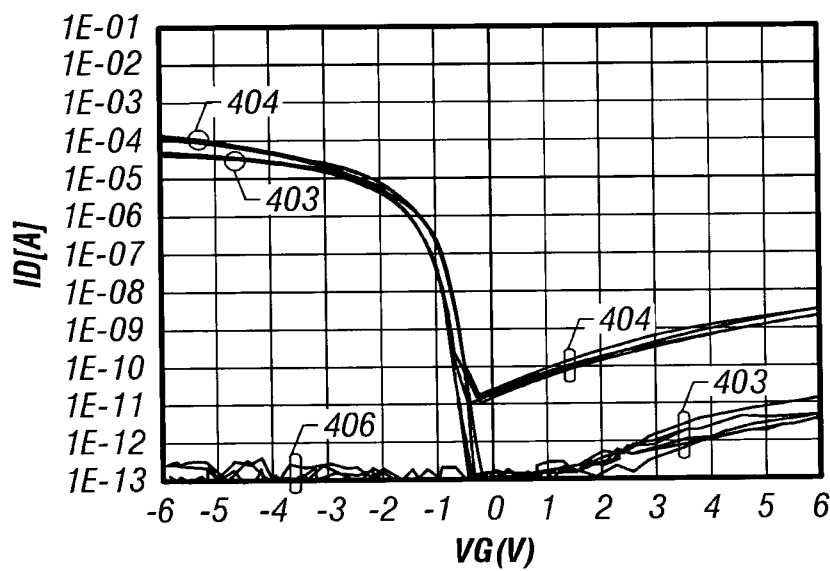


FIG. 4B

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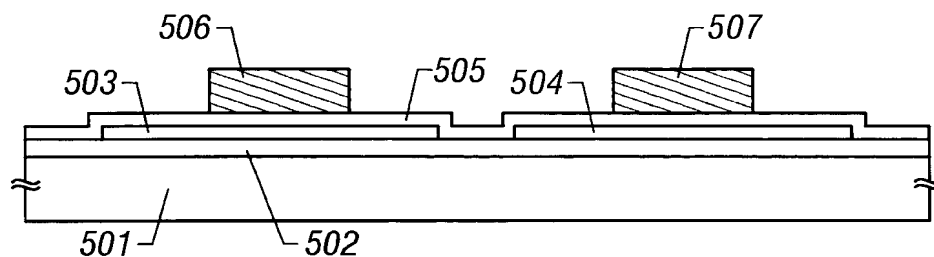


FIG. 5A

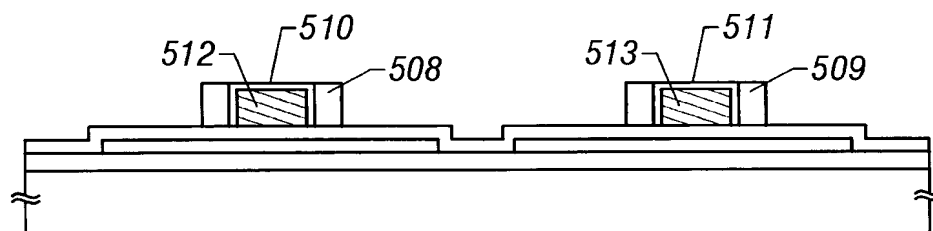


FIG. 5B

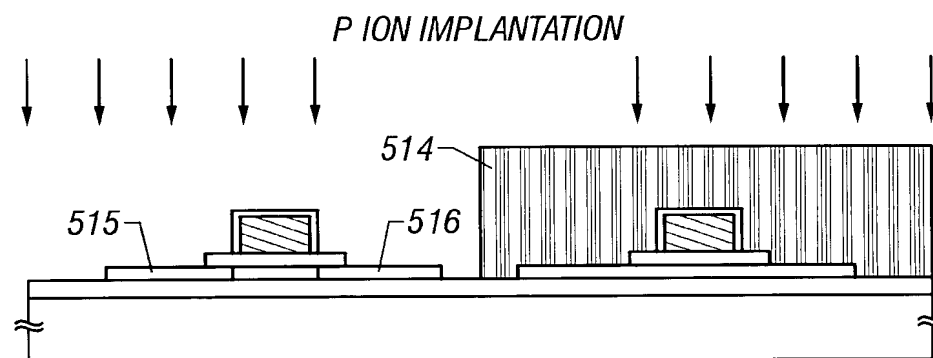


FIG. 5C

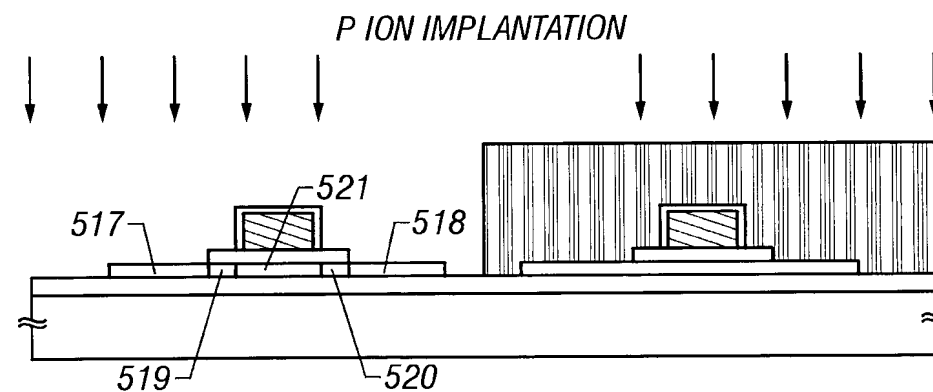
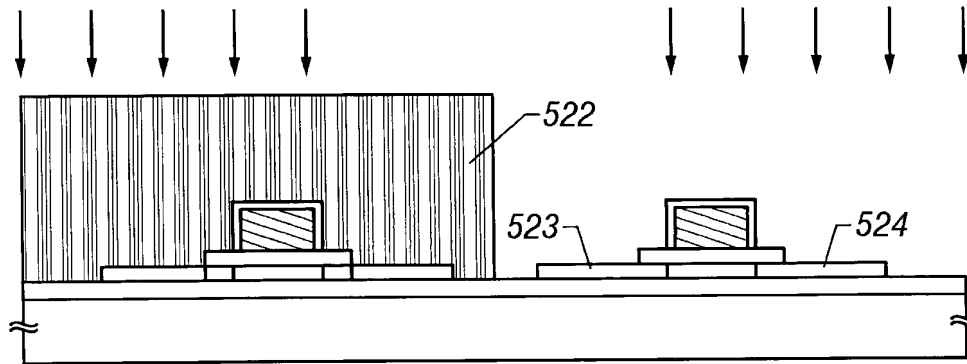


FIG. 5D

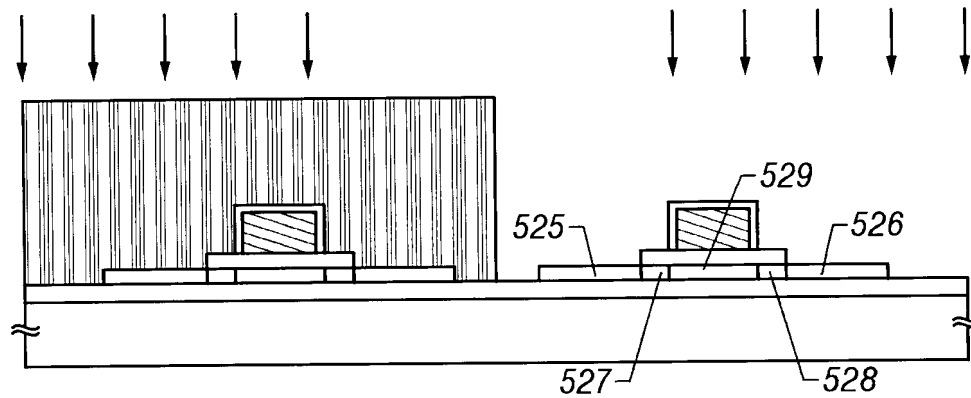
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### B ION IMPLANTATION

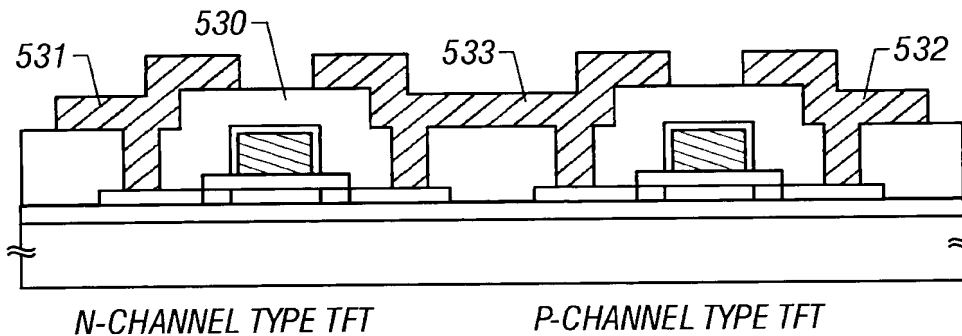


**FIG. 6A**

### B ION IMPLANTATION

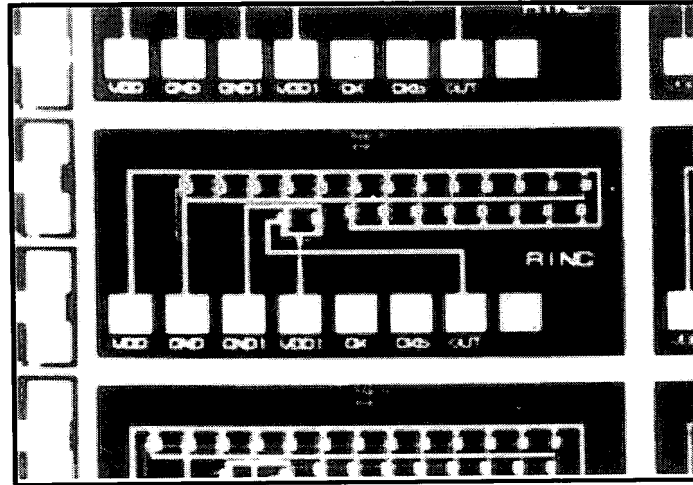


**FIG. 6B**



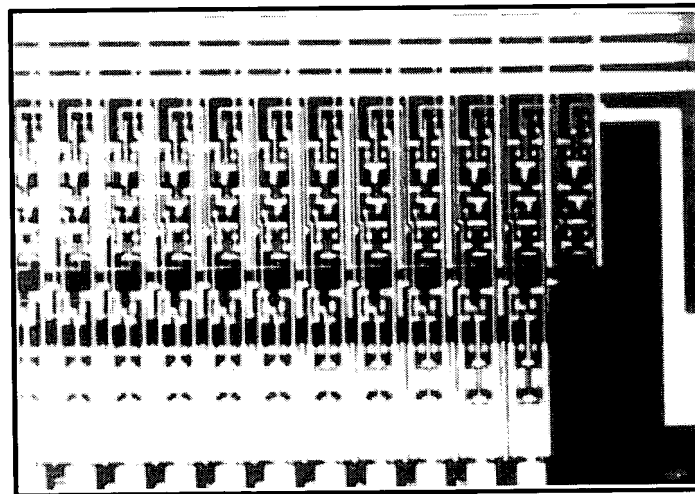
**FIG. 6C**

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150 $\mu$ m

FIG. 7A



150 $\mu$ m

FIG. 7B

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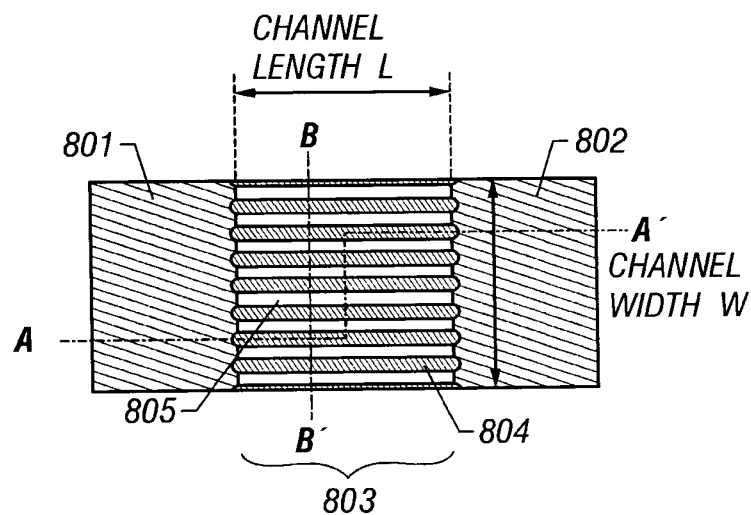


FIG. 8A

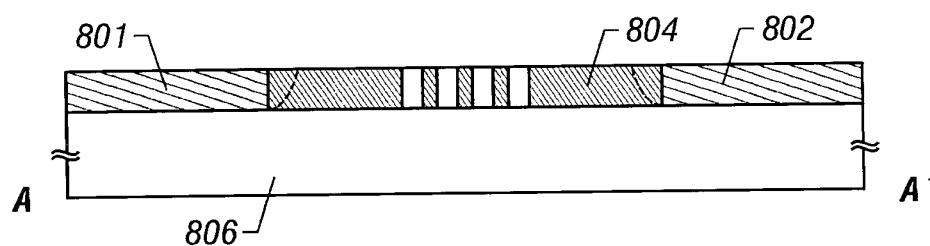


FIG. 8B

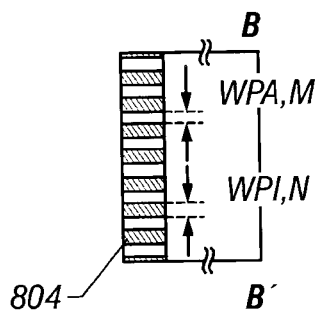


FIG. 8C



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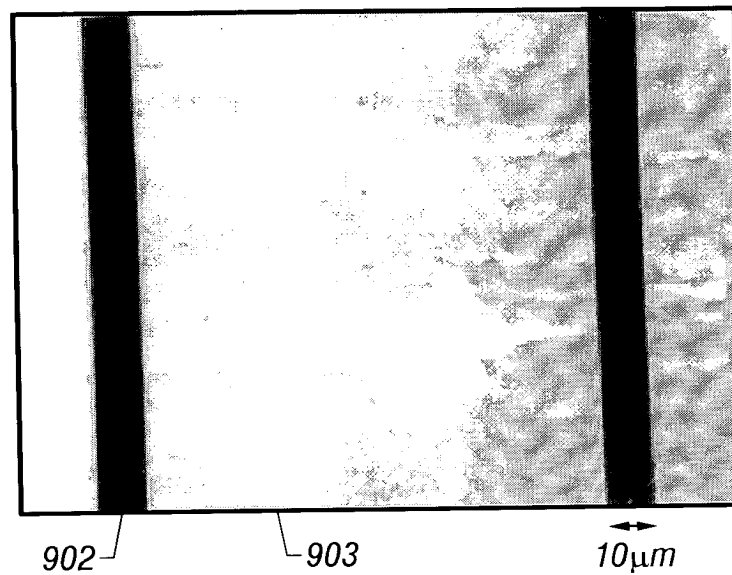


FIG. 9

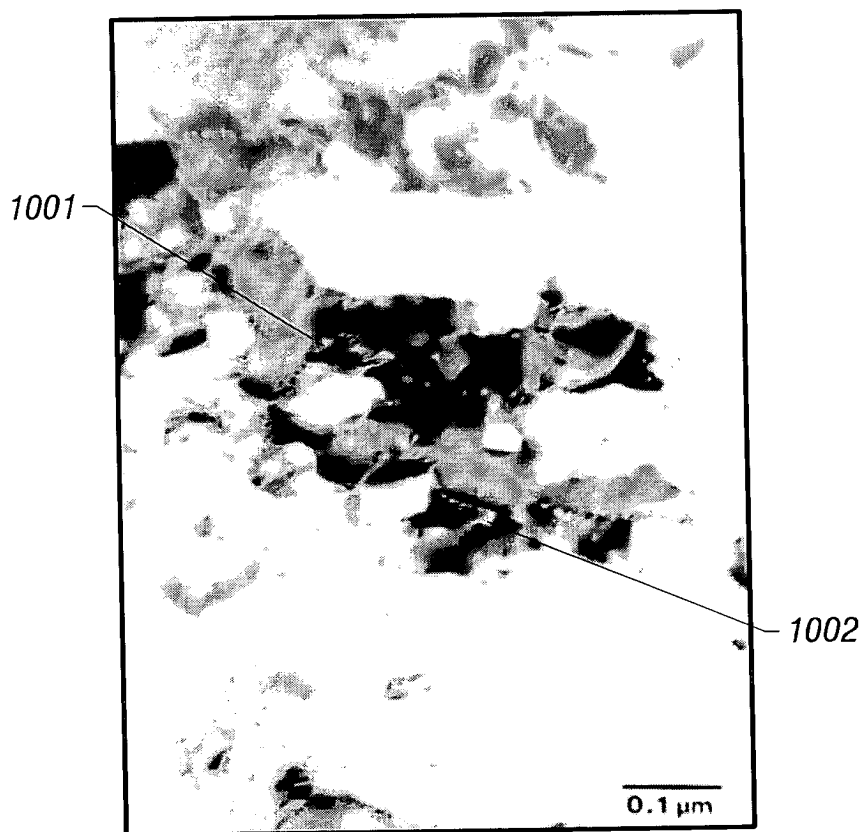


FIG. 10

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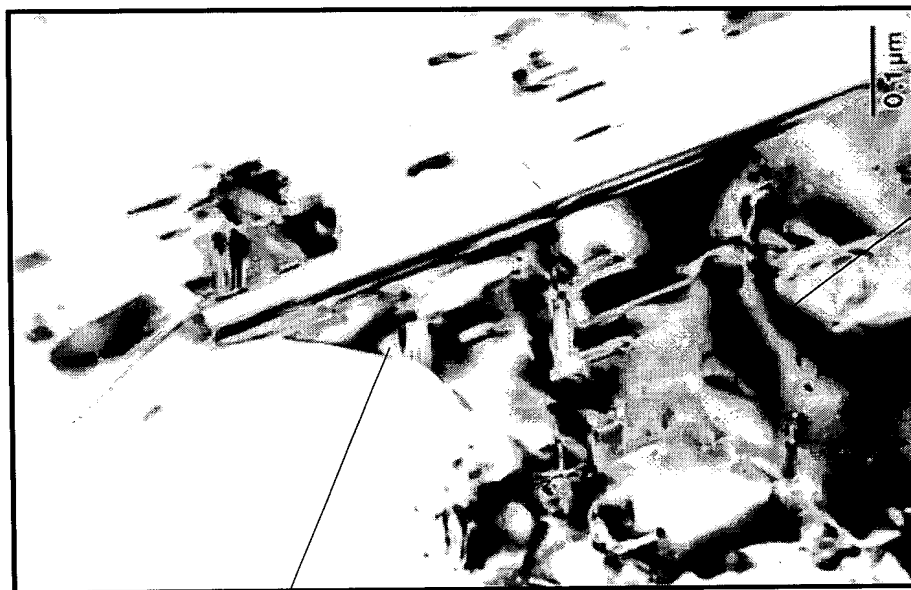


FIG. 12



FIG. 11

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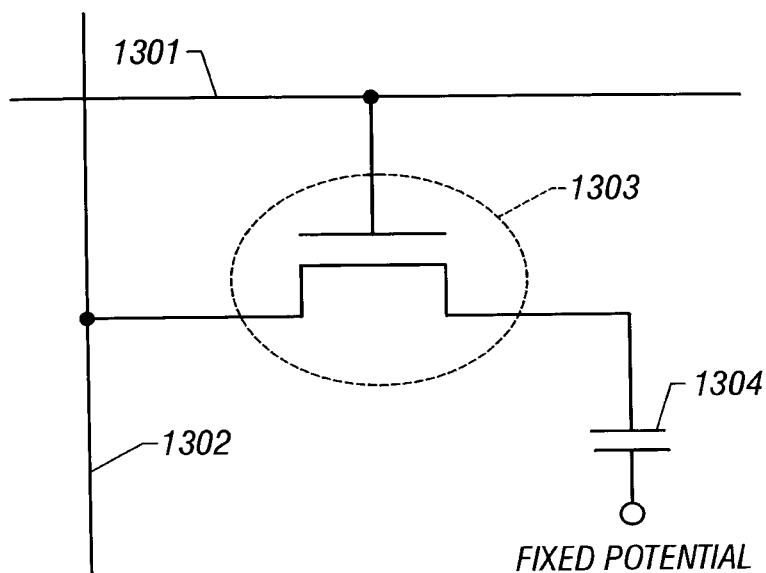


FIG. 13A

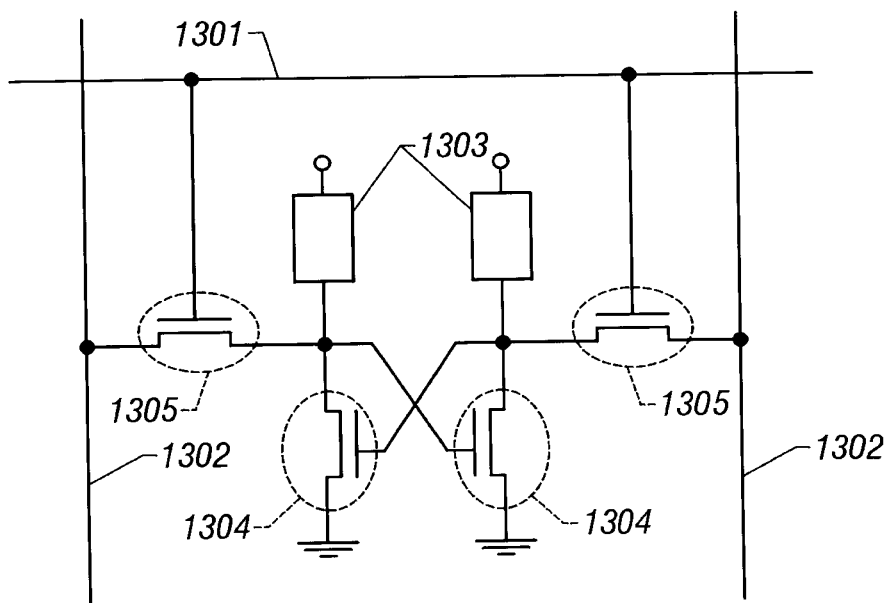


FIG. 13B

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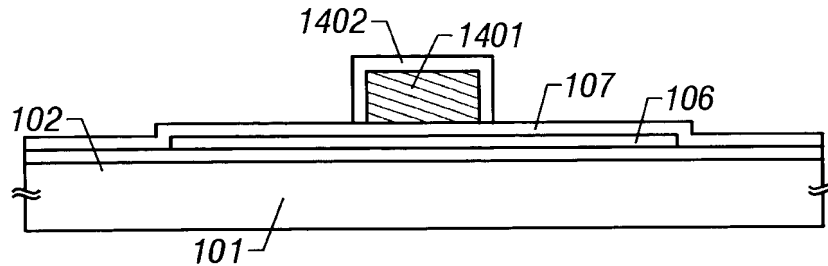


FIG. 14A

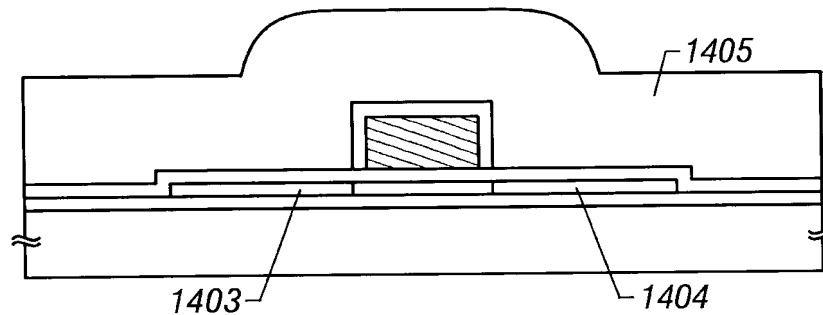


FIG. 14B

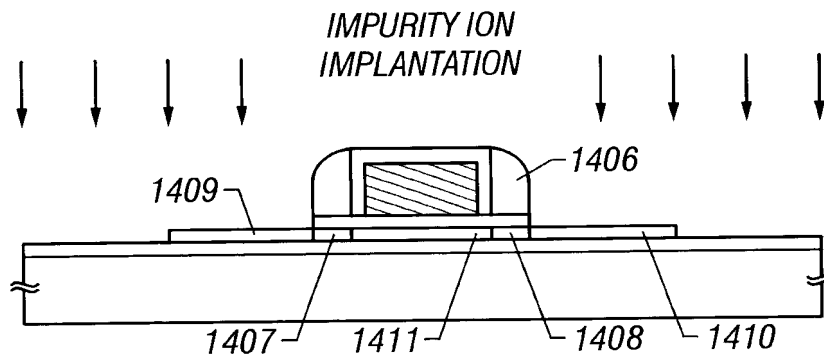


FIG. 14C

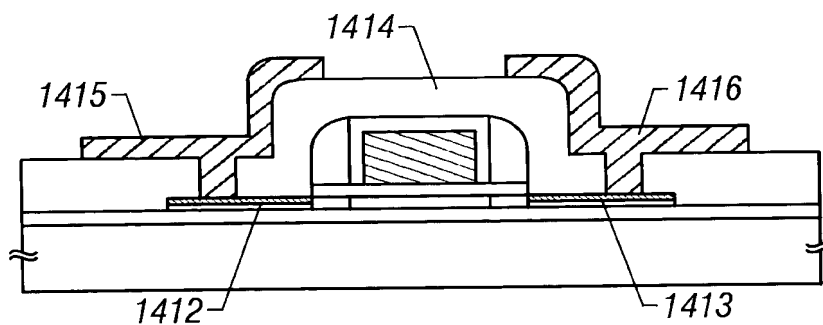
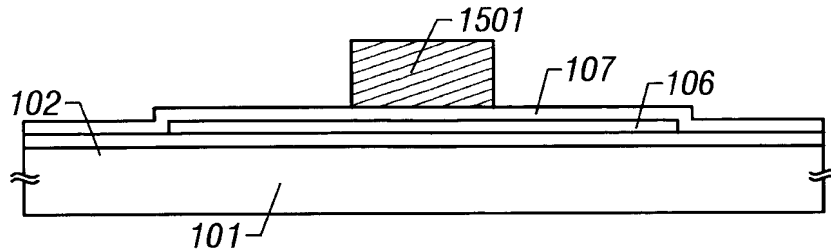


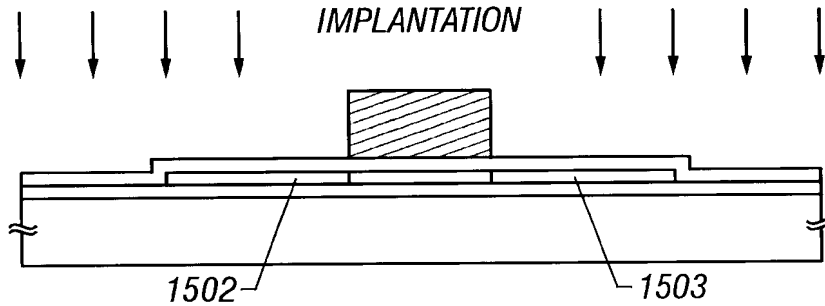
FIG. 14D

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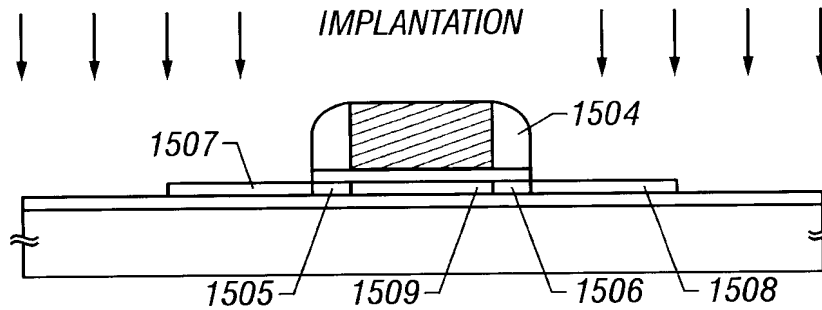
**FIG. 15A**

IMPURITY ION  
 IMPLANTATION

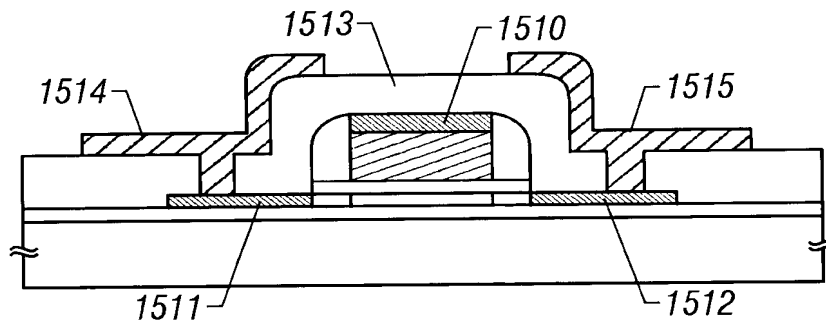


**FIG. 15B**

IMPURITY ION  
 IMPLANTATION



**FIG. 15C**



**FIG. 15D**

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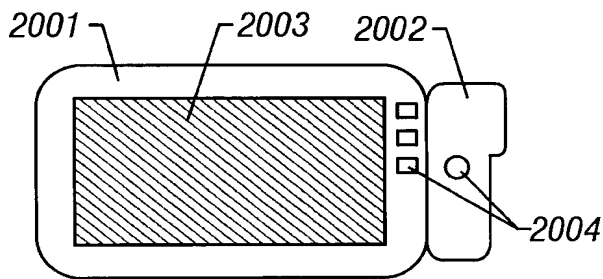


FIG. 16A

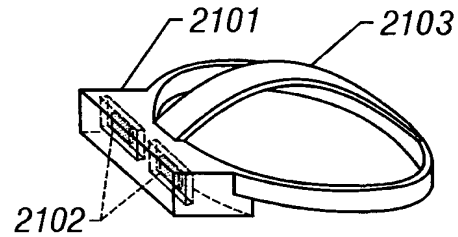


FIG. 16B

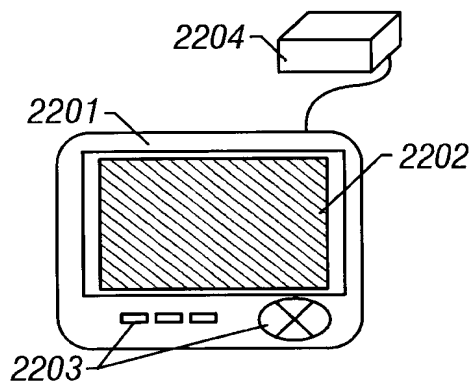


FIG. 16C

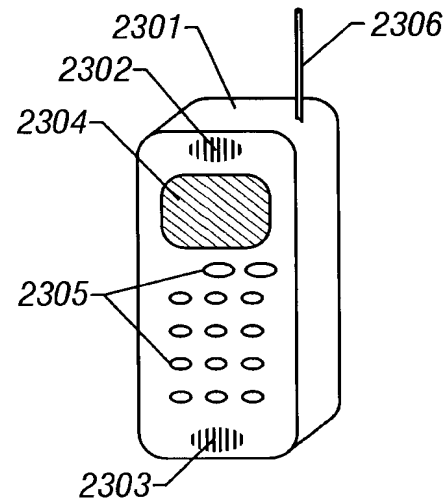


FIG. 16D

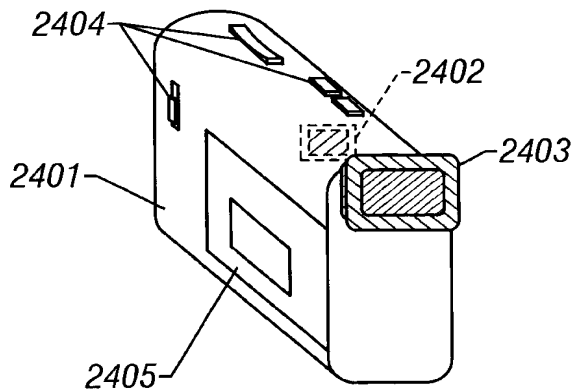


FIG. 16E

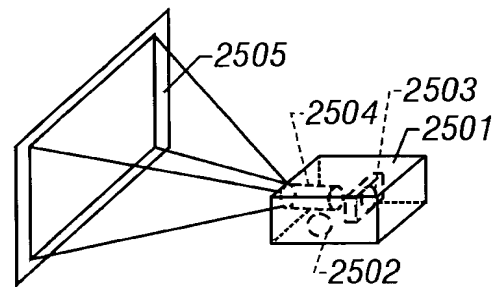


FIG. 16F